

Application No. 10/662,073
Amendment dated May 27, 2008
Reply to Office Action of February 27, 2007

Recitation of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) An absorbent composite comprising superabsorbent material; wherein the superabsorbent material has an Absorption Time of about $5+10 a^2$ minutes or greater, wherein a is the mean particle size of the superabsorbent material in millimeters, and an equilibrium absorption capacity of about 15 g/g or greater as measured by the FAUZL test; and wherein the superabsorbent material has been neutralized from 30 mole % to 65 mole % with a monovalent metal hydroxide, and further from 5 mole % to 40 mole % with a divalent metal hydroxide.
2. (Previously presented) The absorbent composite of Claim 1, wherein the superabsorbent material has an equilibrium absorbent capacity of about 25 g/g or greater as measured by the FAUZL test.
3. (Original) The absorbent composite of Claim 1, wherein the superabsorbent material has an Absorption Time of about $10+10 a^2$ minutes or greater.
4. (Original) The absorbent composite of Claim 1, wherein the superabsorbent material has a Gel Bed Permeability of about $20 \times 10^{-9} \text{ cm}^2$ or greater.
5. (Original) The absorbent composite of Claim 1, wherein the superabsorbent material is substantially homogeneously distributed within the absorbent composite.

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6. (Original) The absorbent composite of Claim 1, wherein the superabsorbent material is zoned within a target area of the absorbent composite.
7. (Original) The absorbent composite of Claim 1, wherein the absorbent composite comprises a plurality of layers and the superabsorbent material is located in a layer of the absorbent composite.
8. (Original) The absorbent composite of Claim 7, wherein the superabsorbent material is zoned within a target area of the layer of the absorbent composite.
9. (Previously presented) The absorbent composite of Claim 1, wherein the superabsorbent material is incorporated primarily away from a target area of the absorbent composite.
10. - 11. (Canceled)
12. (Previously presented) A disposable product comprising an absorbent composite; wherein the absorbent composite comprises a superabsorbent material having an Absorption Time of about $5+10 a^2$ minutes or greater, wherein a is the mean particle size of the superabsorbent material in millimeters, and an equilibrium absorption capacity of about 15 g/g or greater as measured by the FAUZL test; and wherein the superabsorbent material has been neutralized from about 30 mole % to about 65 mole % with a monovalent metal hydroxide, and further from about 5 mole % to about 40 mole % with a divalent metal hydroxide.
13. (Previously presented) The disposable product of Claim 12, wherein the superabsorbent material has an equilibrium absorption capacity of about 25 g/g or greater.

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14. (Original) The disposable product of Claim 12, wherein the superabsorbent material has an Absorption Time of about $10+10 \text{ a}^2$ minutes or greater.

15. (Original) The disposable product of Claim 12, wherein the superabsorbent material has a Gel Bed Permeability of about $20 \times 10^{-9} \text{ cm}^2$ or greater.

16. (Original) The disposable product of Claim 12, wherein the superabsorbent material is substantially homogeneously distributed within the absorbent composite.

17. (Original) The disposable product of Claim 12, wherein the superabsorbent material is zoned within a target area of the absorbent composite.

18. (Original) The disposable product of Claim 12, wherein the absorbent composite comprises a plurality of layers and the superabsorbent material is located in a layer of the absorbent composite.

19. (Original) The disposable product of Claim 18, wherein the superabsorbent material is zoned within a target area of the layer of the absorbent composite.

20. (Previously presented) The disposable product of Claim 12, wherein the superabsorbent material is incorporated primarily away from a target area of the absorbent composite.

21. (Canceled)

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22. (Original) The disposable product of Claim 12, wherein the disposable product is selected from a diaper, an adult incontinence product, a bed pad, a sanitary napkin, a tampon, a tissue, a wipe, a tissue, a bib, a wound dressing, or food packaging.

23. (Previously presented) An absorbent disposable garment comprising:
a body-side liner;
an outer cover superposed in facing relation with the body-side liner; and,
an absorbent composite located between the body-side liner and the outer cover,
wherein the absorbent composite comprises superabsorbent material having an Absorption Time of about $5+10 a^2$ minutes or greater, wherein a is the mean particle size of the superabsorbent material in millimeters, and an equilibrium absorption capacity of about 15 g/g or greater as measured by the FAUZL test; and
wherein the superabsorbent material has been neutralized from about 30 mole % to about 65 mole % with a monovalent metal hydroxide, and further from about 5 mole % to about 40 mole % with a divalent metal hydroxide.

24. (Previously presented) The absorbent composite of claim 1 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.

25. (Previously presented) The disposable product of claim 12 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.

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26. (Previously presented) The absorbent disposable garment of claim 23 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.